

WHAT IS CLAIMED IS:

1. An iron component comprising:

an iron body material formed having a given shape
and polished, an oxide in the constituents of fragments
5 of an oxide abrasive material in and near the surface
of the body material being reduced so that iron is
dispersed into the body material.

2. An iron component according to claim 1,

wherein said iron body material forms a stainless-steel
10 component stored in a casing of a disc drive.

3. A method for manufacturing an iron component,
comprising:

a polishing process of polishing the surface of an
iron body material having a given shape by means of an
15 abrasive material containing ferric oxide; and

a heat treatment process of heating the body
material in a reducing atmosphere after the polishing
process, thereby reducing an oxide in the constituents
of fragments of the abrasive material in and near the
20 surface of the body material and leaving iron, and
keeping the body material at a temperature for
dispersion, thereby dispersing the iron into the body
material.

4. A method for manufacturing an iron component

25 according to claim 3, wherein said iron body material
forms a stainless-steel component stored in a casing of
a disc drive.

5. A method for manufacturing an iron component according to claim 4, wherein said iron body material is austenitic stainless steel.

6. A hard disc drive comprising:

5 an iron component including an iron body material formed having a given shape and polished, an oxide in
360 the constituents of fragments of an oxide abrasive
 material in and near the surface of the body material
 being reduced so that iron is dispersed into the body
10 material, the iron component being stored in a casing.